

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Customer ID: LOUR62  
Customer PO:  
Received: 12/22/10 11:15 AM  
EMSL Order: 041029468

Fax: (860) 747-8822 Phone: (860) 747-6181  
Project: 07MD806

EMSL Proj:  
Analysis Date: 12/28/2010

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-001 041029468-0001	BUILDING 2A EAST WALL - GRAY/ TAN CAULK ON WIDE FLANGE BEAM IN CONCRETE BLOCK WALL	Gray /Tan Fibrous Homogeneous	99.0	None	1.5% Chrysotile
AB-002 041029468-0002	BUILDING 2A SOUTH WALL - GRAY/ TAN CAULK ON WIDE FLANGE BEAM IN CONCRETE BLOCK WALL	Gray /Tan Non-Fibrous Homogeneous	99.0	None	0.9% Chrysotile
AB-008 041029468-0008	- GASKET ON BOILER FLANGE	Tan Fibrous Homogeneous	64.0	35.7 Glass	No Asbestos Detected
AB-013 041029468-0013	EXTERIOR DOOR TO BOILER ROOM - CAULK ON METAL DOOR FRAME	Tan /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-014 041029468-0014	SOUTHWEST CORNER OF BOILER ROOM - CAULK ON METAL FRAME OF WALL LOUVER	Gray Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-015 041029468-0015	SOUTH WALL OF BOILER ROOM - GRAY/ WHITE CAULK IN MASONRY EXPANSION JOINT	Gray /Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

Initial report from 12/28/2010 12:42:44

Analyst(s)

Dave Poitras (8)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NYS ELAP 10872

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SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-017 041029468-0017	SOUTH WALL OF RECEIVING AREA - GRAY/TAN CAULK ON WIDE FLANGE BEAM IN CONCRETE BLOCK WALL	Gray /White Fibrous Homogeneous	99.0	None	1.5% Chrysotile
AB-024 041029468-0024	SOUTHEAST CORNER OF BULIDING 1A - GRAY/ TAN CAULK ON WIDE FLANGE BEAM IN CONCRETE BLOCK WALL	White /Green Fibrous Homogeneous	99.0	None	0.7% Chrysotile

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**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-003 041029468-0003	BUILDING 2A SOUTH WALL - FOAM INSULATION BEHIND CAULK ON WIDE FLANGE BEAM	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
AB-004 041029468-0004	BUILDING 3 - CLOTH WRAP ON 2" FIBERGLASS PIPE INSULATION	Brown Fibrous Heterogeneous	60% Cellulose 30% Glass	10% Non-fibrous (other)	None Detected
AB-005 041029468-0005	BOILER ROOM - CLOTH WRAP ON HOT WATER TANK	Tan/White Fibrous Heterogeneous	60% Glass	40% Non-fibrous (other)	None Detected
AB-006 041029468-0006	BOILER ROOM - MUDDIED INSULATION ON HOT WATER TANK	Brown Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (other)	None Detected
AB-007 041029468-0007	BOILER ROOM - CLOTH WRAP ON 4" FIBERGLASS PIPE INSULATION	Brown/Silver Fibrous Heterogeneous	35% Cellulose 20% Glass	45% Non-fibrous (other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

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EMSL Proj:  
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### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-009 041029468-0009	BOILER ROOM ADJACENT OT SOUTHER BOILER UNIT - MUDDER ELBOW ON 2" FIBERGLASS PIPE INSULATION	White Fibrous Homogeneous		60% Non-fibrous (other)	40% Chrysotile
AB-010 041029468-0010	NORTHERN BOILER UNIT - MUDDER INSULATION ON EXHAUST	Brown Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (other)	None Detected
AB-011 041029468-0011	BOILER ROOM - CLOTH WRAP ON 18" FIBERGLASS PIPE INSULATION	Tan Fibrous Heterogeneous	40% Glass	60% Non-fibrous (other)	None Detected
AB-012 041029468-0012	SOUTHERN BOILER UNIT EXHAUST - CLOTH WRAP ON FIBERGLASS INSULATION	Brown Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected

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**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-016 041029468-0016	ABOVE NORTHERN BOILER UNIT - 2" BLACK FOAM PIPE INSULATION	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
AB-018 041029468-0018	NORTH- CENTRAL PORTION OF BUILDING 7 - MUDDIED FITTING ON 12" FIBERGLASS PIPE INSULATION	Gray Fibrous Heterogeneous		75% Non-fibrous (other)	25% Chrysotile
AB-019 041029468-0019	PARTS STORAGE ROOM - CLOTH WRAP ON 6" FIBERGLASS PIPE INSULATION	Brown Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
AB-020 041029468-0020	MENS ROOM NORTH OF BUILDING 8 - PLASTER SKIM COAT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-021 041029468-0021	MENS ROOM NORTH OF BUILDING 8 - PLASTER BASE COAT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
AB-022 041029468-0022	MENS ROOM NORTH OF BUILDING 8 - FLOOR TILE GROUT	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
AB-023 041029468-0023	MENS ROOM NORTH OF BUILDING 8 - MORTAR T O CERAMIC COVE BASE	Brown/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

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EMSL

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

## Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041029468

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Company : Loureiro Engineering Associates # : LOUR62		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Drive		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: USA
Report To (Name): Kevin J. Bitjeman		Fax #: 860-747-8822	
Telephone #: 860-410-2904		Email Address: kjbijeman@loureiro.com	
Project Name/Number: 07MD806		U.S. State Samples Taken: PA	
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours <input type="checkbox"/> 6 Hours <input type="checkbox"/> 24 Hrs <input type="checkbox"/> 48 Hrs <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> 4 Days <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days			
*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input checked="" type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		<b>TEM - Air</b> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) <b>Other:</b> <input type="checkbox"/>		<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group	
Samplers Name: Kevin J. Bitjeman		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-001	Gray/tan caulk on wide flange beam in concrete block wall. Building 2A east wall.	Bulk	12/20/10
AB-002	Gray/tan caulk on wide flange beam in concrete block wall. Building 2A south wall.	Bulk	12/20/10
AB-003	Foam insulation behind caulk on wide flange beam. Building 2A south wall.	Bulk	12/20/10
AB-004	Cloth wrap on 2" fiberglass pipe insulataion. Building 3.	Bulk	12/20/10
AB-005	Cloth wrap on hot water tank. Boiler room.	Bulk	12/20/10
AB-006	Muddled insulation on hot water tank. Boiler room.	Bulk	12/20/10
AB-007	Cloth wrap on 4" fiberglass pipe insulation. Boiler room.	Bulk	12/20/10
AB-008	Gasket on boiler flange.	Bulk	12/20/10 - NOB
Client Sample # (s): AB-001 - AB-024		Total # of Samples: 24	
Relinquished (Client): [Signature] Date: 12/21/10		Time: 17:00	
Received (Lab): [Signature] Date: 12-22-10		Time:	
Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.			





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# Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

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EMSL ANALYTICAL, INC.  
107 HADDON AVENUE  
WESTMONT, NJ 08108  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-009	Mudded elbow on 2" fiberglass pipe insulation. Boiler room adjacent to southern boiler unit.	Bulk	12/20/10
AB-010	Mudded insulation on exhaust for northern boiler unit.	Bulk	12/20/10
AB-011	Cloth wrap on 18" fiberglass pipe insulation. Boiler room.	Bulk	12/20/10
AB-012	Cloth wrap on fiberglass insulation. Southern boiler unit exhaust.	Bulk	12/20/10
AB-013	Caulk on metal door frame. Exterior door to boiler room.	Bulk	12/20/10
AB-014	Caulk on metal frame of wall louver. Southwest corner of boiler room.	Bulk	12/20/10
AB-015	Gray/white caulk in masonry expansion joint. South wall of boiler room.	Bulk	12/20/10
AB-016	2" black foam pipe insulation. Above northern boiler unit.	Bulk	12/20/10 - PLM
AB-017	Gray/tan caulk on wide flange beam in concrete block wall. South wall of receiving area.	Bulk	12/20/10 - NOB
AB-018	Mudded fitting on 12" fiberglass pipe insulation. North-central portion of Building 7.	Bulk	12/20/10
AB-019	Cloth wrap on 6" fiberglass pipe insulation. Parts storage room.	Bulk	12/20/10
AB-020	Plaster skim coat. Mens room north of Building 8.	Bulk	12/20/10
AB-021	Plaster base coat. Mens room north of Building 8.	Bulk	12/20/10
AB-022	Floor tile grout. Mens room north of Building 8.	Bulk	12/20/10
AB-023	Mortar to ceramic cove base. Mens room north of Building 8.	Bulk	12/20/10
AB-024	Gray/tan caulk on wide flange beam in concrete block wall. Southeast corner of Building 1A.	Bulk	12/20/10

\*Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.

SAMPLES ACCEPTED  
FOR ANALYSIS BY  
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SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-025 041029476-0001	FIRE DOOR BETWEEN BUILDING 3A AND 1A - CAULK ON METAL DOOR FRAME	White /Red /Green Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-026 041029476-0002	ROOF LEVEL NEAR BUILDING 8 - GLAZING ON FACTORY OFFICE WINDOWS	White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-027 041029476-0003	CENTRAL UNIT - CAULK ON METAL FRAME OF ROOF ACCESS DOOR	Gray /Green Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-028 041029476-0004	NORTH SIDE OF BUILDING 8 ROOF - TAR PITCH UNDER 1" FOAM BOARD INSULATION	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-031 041029476-0007	BUILDING 9 SOUTH PARAPET WALL - MASTIC TO RUBBER FLASHING	Brown Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-032 041029476-0008	BUILDING 9 ROOF - TAR PITCH ON METAL DECKING	Gray /Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

Initial report from 12/28/2010 13:57:15

Analyst(s)

Alexis Turner (18)

Stephen Siegel, CIH, Laboratory Manager  
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SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-035 041029476-0011	ROOF ABOVE BUILDING 8 - GRAY CAULK ON FLANGE OF CENTRAL EXHAUST DUCT	Gray Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-036 041029476-0012	NORTH SIDE OF BUILDING 8 ROOF - DARK GRAY CAULK ON EXHAUST HOOD	Gray /Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-037 041029476-0013	BUILDING 6 ROOF - TAR COATING ON EXHAUST DUCT	Black Non-Fibrous Homogeneous	98.0	None	2.5% Chrysotile
AB-038 041029476-0014	NORTH SIDE OF BUILDING 8 ROOF - BLACK CAULK ON EXHAUST DUCT	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-039 041029476-0015	BUILDING 2 - TAR PITCH BENEATH GRAVEL BALLAST / BUILT UP ROOFING SYSTEM	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-040 041029476-0016	BUILDING 2 - TAR PITCH BETWEEN LAYERS OF ASPHALT ROOFING PAPER / BUILT UP ROOFING SYSTEM	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

Initial report from 12/28/2010 13:57:15

Analyst(s)

Alexis Turner (18)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NYS ELAP 10872

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontasblab@EMSL.com](mailto:westmontasblab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Customer ID: LOUR62  
Customer PO:  
Received: 12/22/10 11:15 AM  
EMSL Order: 041029476

Fax: (860) 747-8822 Phone: (860) 747-6181

Project: 07MD806

EMSL Proj:  
Analysis Date: 12/28/2010

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-041 041029476-0017	BUILDING 2 - TOP LAYER OF ASPHALT ROOFING PAPER/ BUILT UP ROOFING SYSTEM	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-042 041029476-0018	BUILDING 2 - BOTTOM LAYER OF ASPHALT ROOFING PAPER/ BUILT UP ROOFING SYSTEM	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-044 041029476-0020	RECEIVING AREA - GLAZING ON ROOF LEVEL WINDOWS	Gray Non-Fibrous Homogeneous	100.0	None	<0.25% Chrysotile
AB-045 041029476-0021	RECEIVING AREA - CAULK ON ROOF LEVEL WINDOW FRAMES	Gray /Green Non-Fibrous Homogeneous	95.0	None	4.6% Chrysotile
AB-046 041029476-0022	ROOF ABOVE RECEIVING AREA - BLACK RUBBER SEALANT ON ROOF DRAIN	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-047 041029476-0023	SOUTH SIDE OF BUILDING 3 ROOF - TAR PITCH ON METAL DECKING BELOW 1" FOAM BOARD INSULATION	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

Initial report from 12/28/2010 13:57:15

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Project: **07MD806**

EMSL Proj:  
Analysis Date: 12/28/2010

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			%	Fibrous	% Type
AB-029 041029476-0005	NORTH SIDE OF BUILDING 8 ROOF - BROWN PAPER ON FOAM BOARD INSULATION	Gray/Yellow Fibrous Heterogeneous	40% 20%	Cellulose Glass	40% Non-fibrous (other) None Detected
AB-030 041029476-0006	NORTH SIDE OF BUILDING 8 ROOF - BROWN FIBEROUS MATERIAL ON METAL DECKING BENEATH FOAM BOARD INSULATION	Brown Fibrous Heterogeneous	100%	Cellulose	0% Non-fibrous (other) None Detected
AB-033 041029476-0009	BUILDING 9 ROOF - BROWN FIBEROUS MATERIAL ON METAL DECKING BENEATH FOAM BOARD	Brown Fibrous Heterogeneous	100%	Cellulose	0% Non-fibrous (other) None Detected
AB-034 041029476-0010	BUILDING 9 ROOF - AMBER PLASTIC MATERIAL BELOW FOAM BOARD	Gray Non-Fibrous Heterogeneous			100% Non-fibrous (other) None Detected

Initial report from 12/28/2010 13:57:15

Analyst(s)

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

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EMSL Order: 041029476

Fax: (860) 747-8822 Phone: (860) 747-6181

Project: 07MD806

EMSL Proj:  
Analysis Date: 12/28/2010

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-043 041029476-0019	BUILDING 2 - TAN FIBEROUS MATERIAL ON METAL DECKING/ BUILT UP ROOFING SYSTEM	Gray Fibrous Heterogeneous	60% Cellulose 25% Min. Wool	15% Non-fibrous (other)	None Detected
AB-048 041029476-0024	SOUTH SIDE OF BUILDING 3 ROOF - BROWN FIBEROUS MATERIAL ON METAL DECKING	Brown Fibrous Heterogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected

Initial report from 12/28/2010 13:57:15

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EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041029476

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Company : Loureiro Engineering Associates # : LOUR62		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Drive		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: USA
Report To (Name): Kevin J. Bitjeman		Fax #: 860-747-8822	
Telephone #: 860-410-2904		Email Address: kjbitjeman@loureiro.com	
Project Name/Number: 07MD806			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: U.S. State Samples Taken: PA	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours <input type="checkbox"/> 6 Hours <input type="checkbox"/> 24 Hrs <input type="checkbox"/> 48 Hrs <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> 4 Days <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days			
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input checked="" type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		<b>TEM - Air</b> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		<b>TEM- Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) <b>Other:</b>	
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group			
Samplers Name: Kevin J. Bitjeman		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-025	Caulk on metal door frame. Fire door between Building 3A and 1A.	Bulk	12/20/10
AB-026	Glazing on factory office building windows. Roof level near Building 8.	Bulk	12/20/10
AB-027	Caulk on metal frame of roof access door. Central Unit.	Bulk	12/20/10
AB-028	Tar pitch under 1" foam board insulation. North side of Building 8 roof.	Bulk	12/20/10
AB-029	Brown paper on foam board insulation. North side of Building 8 roof.	Bulk	12/20/10
AB-030	Brown fibrous material on metal decking beneath foam board insulation. North side of Building 8 roof.	Bulk	12/20/10
AB-031	Mastic to rubber flashing on Building 9 south parapet wall.	Bulk	12/20/10
AB-032	Tar pitch on metal decking. Building 9 roof.	Bulk	12/20/10
Client Sample # (s): AB-025 - AB-048		Total # of Samples: 24	
Relinquished (Client): <i>[Signature]</i> Date: 12/21/10		Time: 17:00	
Received (Lab): <i>[Signature]</i> Date: 12-22-10		Time:	
Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.			





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041029476

EMSL ANALYTICAL, INC.  
107 HADDON AVENUE  
WESTMONT, NJ 08108  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-033	Brown fibrous material on metal decking beneath foam board insulation. Building 9 roof.	Bulk	12/20/10
AB-034	Amber plastic material below foam board. Building 9 roof.	Bulk	12/20/10
AB-035	Gray caulk on flange of central exhaust duct. Roof above Building 8.	Bulk	12/20/10
AB-036	Dark gray caulk on exhaust hood. North side of Building 8 roof.	Bulk	12/20/10
AB-037	Tar coating on exhaust duct. Building 6 roof.	Bulk	12/20/10
AB-038	Black caulk on exhaust duct. North side of Building 8 roof.	Bulk	12/20/10
AB-039	Tar pitch beneath gravel ballast. Built-up roofing system above Building 2.	Bulk	12/20/10
AB-040	Tar pitch between layers of asphalt roofing paper. Built-up roofing system above Building 2.	Bulk	12/20/10
AB-041	Top layer of asphalt roofing paper. Built-up roofing system above Building 2.	Bulk	12/20/10
AB-042	Bottom layer of asphalt roofing paper. Built-up roofing system above Building 2.	Bulk	12/20/10
AB-043	Tan fibrous material on metal decking. Built-up roofing system above Building 2.	Bulk	12/20/10
AB-044	Glazing on roof level windows. Receiving area.	Bulk	12/20/10
AB-045	Caulk on roof level window frames. Receiving area.	Bulk	12/20/10
AB-046	Black rubber sealant on roof drain. Roof above receiving area.	Bulk	12/20/10
AB-047	Tar pitch on metal decking below 1" foam board insulation. South side of Building 3 roof.	Bulk	12/20/10
AB-048	Brown fibrous material on metal decking. South side of Building 3 roof.	Bulk	12/20/10

\*Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.

SAMPLES ACCEPTED  
FOR ANALYSIS BY  
EMSL ANALYTICAL INC.



**EMSL Analytical, Inc.**

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**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
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Fax: (860) 747-8822

Phone: (860) 747-6181

Project: **07MD806**

Customer ID: LOUR62

Customer PO:

Received: 12/22/10 11:15 AM

EMSL Order: 041029475

EMSL Proj:

Analysis Date: 12/28/2010

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-049 041029475-0001	AIR HANDLING UNIT ON NORTHWEST SIDE OF BLDG 12 ROO - TAR COATING ON FIBERGLASS DUCT INSULATION	Black Non-Fibrous Homogeneous	95.0	None	4.7% Chrysotile
AB-050 041029475-0002	ROOF ABOVE BUILDING 12 - GRAY CAULK ON FLANGE OF CENTRAL EXHAUST DUCT	Gray /Yellow Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-051 041029475-0003	SOUTHEAST CORNER OF BUILDING 10 ROOF - WHITE BRITTLE CAULK ON 4" ALUMINUM FLASHING	Gray Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-053 041029475-0005	NORTH SIDE OF BUILDING 9 - CAULK ON METAL FRAME WINDOWS	Gray /Green Non-Fibrous Homogeneous	96.0	None	4.0% Chrysotile
AB-054 041029475-0006	GREEN EXTERIOR DOOR ON NORTHSIDE OF BLDG 10 - CAULK ON METAL DOOR FRAME	Gray /Green Non-Fibrous Homogeneous	94.0	None	5.7% Chrysotile
AB-055 041029475-0007	RED EXTERIOR DOOR ON NORTHSIDE OF BLDG 10 - CAULK ON METAL DOOR FRAME	Red Non-Fibrous Homogeneous	93.0	None	6.6% Chrysotile

Initial report from 12/28/2010 13:16:50

Analyst(s)

Melissa Klinedinst( 18)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-056 041029475-0008	NORTH SIDE OF BUILDING 10 - CAULK ON METAL FRAME WINDOWS	Gray /Green Non-Fibrous Homogeneous	93.0	None	7.4% Chrysotile
AB-058 041029475-0010	NORTH SIDE OF BUILDING 51 ROOF - BLACK CAULK ON 4" ALUMINUM FLASHING STRIP	Black Non-Fibrous Homogeneous	100.0	None	0.4% Chrysotile
suggestT EM					
AB-060 041029475-0012	EAST SIDE OF BUILDING 50 ROOF - TAR ON TOP LAYER OF 1" FOAM BOARD	Black Non-Fibrous Homogeneous	100.0	None	<0.25% Chrysotile
suggestT EM					
AB-061 041029475-0013	EAST SIDE OF BUILDING 50 ROOF - TAR ON BOTTOM LAYER OF 1" FOAM BOARD	Gray /Yellow Non-Fibrous Homogeneous	100.0	None	<0.25% Chrysotile
AB-062 041029475-0014	DECKING - TAR PITCH ON METAL DECKING	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-065 041029475-0017	SOUTHWEST SIDE OF BUILDING 50 - CAULK ON EXTERIOR METAL DOOR FRAME	Gray /Green Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
suggestT EM - suspectf ibers					

Initial reportf rom 12/28/2010 13:16:50

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**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-066 041029475-0018	NORTH EXTERIOR WALL OF BUILDING 50 - CAULK ON WIDE FLANGE BEAM	Gray /White Non-Fibrous Homogeneous	99.0	None	1.5% Chrysotile
AB-068 041029475-0020	EAST EXTERIOR WALL OF BUILDING 50 - CAULK ON WIDE FLANGE BEAM	Tan /White Non-Fibrous Homogeneous	98.0	None	1.6% Chrysotile
AB-069 041029475-0021	SOUTHEAST SIDE OF BUILDING 50 - TAR PAPER ON SLOPED ROOF	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-070 041029475-0022	SOUTHEAST SIDE OF BUILDING 50 - ASPHALT SHINGLE ON SLOPED ROOF	White /Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-071 041029475-0023	PARAPET WAL ON SOUTHEAST SIDE OF BUILDING 50 - GRAY CAULK UNDER WIDE FLANGE BEAM	Gray Non-Fibrous Homogeneous	96.0	None	4.5% Chrysotile
AB-072 041029475-0024	SOUTHEAST SIDE OF BUILDING 50 - CAULK ON 4" COPPER FLASHING AT BASE OF PARAPET WALL	Gray Non-Fibrous Homogeneous	91.0	None	8.9% Chrysotile

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Test Report EPANOB-7.21.0 Printed: 12/28/2010 1:16:50 PM

**THIS IS THE LAST PAGE OF THE REPORT.**

3

**EMSL Analytical, Inc.**

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### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-052 041029475-0004	SOUTHEAST CORNER OF BUILDING 10 ROOF - FOAM BOARD PAPER WITH ALUMINUM FOIL COATING	Tan/Silver Fibrous Heterogeneous	15% Glass	85% Non-fibrous (other)	None Detected
AB-057 041029475-0009	NORTHEAST SIDE OF BUILDING 10 - YELLOW CORRUGATED TRANSITE ROOFING	White Fibrous Heterogeneous	80% Glass	20% Non-fibrous (other)	None Detected
AB-059 041029475-0011	EAST SIDE OF BUILDING 51 UPPER ROOF - 0.5" WHITE GYPSUM BOARD UNDER RUBBER MEMBRANE	Beige Fibrous Heterogeneous	10% Glass	90% Non-fibrous (other)	None Detected
AB-063 041029475-0015	BUILDING 50 - 2' X 4' SUSPENDED CEILING TILE	Tan/White Fibrous Heterogeneous	45% Cellulose 25% Min. Wool	30% Non-fibrous (other)	None Detected
AB-064 041029475-0016	EAST WALL OF BUILDING 50 - SHEET ROCK	Gray/Tan Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected

Initial report from 12/28/2010 13:16:50

Analyst(s)

Melissa Klinedinst (6)

Stephen Siegel, C.I.H., Laboratory Manager  
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**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontasblab@EMSL.com](mailto:westmontasblab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Fax: (860) 747-8822

Phone: (860) 747-6181

Project: **07MD806**

Customer ID: LOUR62

Customer PO:

Received: 12/22/10 11:15 AM

EMSL Order: 041029475

EMSL Proj:

Analysis Date: 12/28/2010

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using  
Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-067 041029475-0019	NORTH EXTERIOR WALL OF BUILDING 50 - BROWN/BLACK FIBEROUS INSULATION BEHIND CAULK ON WIDE FLANGE BEAM	Brown Fibrous Heterogeneous	97% Cellulose	3% Non-fibrous (other)	None Detected

Initial report from 12/28/2010 13:16:50

Analyst(s)

Melissa Klinedinst (6)

Stephen Siegel, C IH, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government. The test results contained within this report meet the requirements of NELAP unless otherwise specified. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, A IHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10672, NJ DEP 03036



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041029475

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Company : Loureiro Engineering Associates #: LOUR62		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Drive		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: USA
Report To (Name): Kevin J. Bitjeman		Fax #: 860-747-8822	
Telephone #: 860-410-2904		Email Address: kjbitjeman@loureiro.com	
Project Name/Number: 07MD806			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: PA
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours <input type="checkbox"/> 6 Hours <input type="checkbox"/> 24 Hrs <input type="checkbox"/> 48 Hrs <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> 4 Days <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days			
*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input checked="" type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		<b>TEM - Air</b> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water:</b> EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input checked="" type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) <b>Other:</b>		10-25-10 12-27-10 12-27-10	
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group			
Samplers Name: Kevin J. Bitjeman		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-049	Tar coating on fiberglass duct insulation. Air handling unit on northwest side of Building 12 roof.	Bulk	12/20/10
AB-050	Gray caulk on flange of central exhaust duct. Roof above Building 12.	Bulk	12/20/10
AB-051	White brittle caulk on 4" aluminum flashing. Southeast corner of Building 10 roof.	Bulk	12/20/10
AB-052	Foam board paper with aluminum foil coating. Southeast corner of Building 10 roof.	Bulk	12/20/10 - PLM
AB-053	Caulk on metal frame windows. North side of Building 9.	Bulk	12/20/10
AB-054	Caulk on metal door frame. Green exterior door on north side of Building 10.	Bulk	12/20/10
AB-055	Caulk on metal door frame. Red exterior door on north side of Building 10.	Bulk	12/20/10
AB-056	Caulk on metal frame windows. North side of Building 10.	Bulk	12/20/10
Client Sample # (s): AB-049 - AB-072		Total # of Samples: 24	
Relinquished (Client): <i>[Signature]</i> Date: 12/21/10		Time: 17:00	
Received (Lab): <i>[Signature]</i> Date: 12-22-10		Time:	
Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.			



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041029475

EMSL ANALYTICAL, INC.  
107 HADDON AVENUE  
WESTMONT, NJ 08108  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/HA # (Bulk)	Area (Air) (Bulk)	Date/Time Sampled
AB-057	Yellow corrugated transite roofing on northeast side of Building 10.	Bulk		12/20/10 - PLM
AB-058	Black caulk on 4" aluminum flashing strip. North side of Building 51 roof.	Bulk		12/20/10 - NOB
AB-059	0.5" white gypsum board under rubber membrane. East side of Building 51 upper roof.	Bulk		12/20/10 - PLM
AB-060	Tar on top layer of 1" foam board. East side of Building 50 roof.	Bulk		12/20/10
AB-061	Tar on bottom layer of 1" foam board. East side of Building 50 roof.	Bulk		12/20/10
AB-062	Tar pitch on metal decking.	Bulk		12/20/10
AB-063	2' x 4' suspended ceiling tile. Building 50.	Bulk		12/20/10
AB-064	Sheet rock. East wall of Building 50.	Bulk		12/20/10
AB-065	Caulk on exterior metal door frame. Southwest side of Building 50.	Bulk		12/20/10
AB-066	Caulk on wide flange beam North exterior wall of Building 50.	Bulk		12/20/10
AB-067	Brown/black fibrous insulation behind caulk on wide flange beam. North exterior wall of Building 50.	Bulk		12/20/10 - PLM
AB-068	Caulk on wide flange beam. East exterior wall of Building 50.	Bulk		12/20/10
AB-069	Tar paper on sloped roof. Southeast side of Building 50.	Bulk		12/20/10
AB-070	Asphalt shingle on sloped roof. Southeast side of Building 50.	Bulk		12/20/10
AB-071	Gray caulk under wide flange beam. Parapet wall on southeast side of Building 50.	Bulk		12/20/10
AB-072	Caulk on 4" copper flashing at base of parapet wall. Southeast side of Building 50.	Bulk		12/20/10
*Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.				

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontashlab@EMSL.com](mailto:westmontashlab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Fax: (860) 747-8822

Phone: (860) 747-6181

Project: **07MD806**

Customer ID: LOUR62

Customer PO:

Received: 12/22/10 11:15 AM

EMSL Order: 041029477

EMSL Proj:

Analysis Date: 12/28/2010

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-073 041029477-0001	SOUTHEAST SIDE OF BUILDING 50 - CAULK ON 4" ALUMINUM FLASHING/ BASE OF PARAPET WALL NEAR SLOPED ROOF	Gray /White Non-Fibrous Heterogeneous	100.0	None	No Asbestos Detected
AB-081 041029477-0009	SOUTHEAST CORNER OF BUILDING 50 NEAR LUNCH ROOM - 4" GRAY COVE BASE	Gray Non-Fibrous Heterogeneous	100.0	None	No Asbestos Detected
AB-082 041029477-0010	- MASTIC TO 4" GRAY COVE BASE	Yellow Non-Fibrous Heterogeneous	100.0	None	No Asbestos Detected
AB-083 041029477-0011	DOOR TO ROOF OF CENTRAL UNIT - CAULK ON METAL FRAME	Gray Non-Fibrous Heterogeneous	97.0	None	2.9% Chrysotile
AB-084 041029477-0012	BUILDING 51 NEAR TUNNEL - CAULK AROUND METAL FRAME DOOR TO COURTYARD	Brown /Mauve Non-Fibrous Heterogeneous	100.0	None	No Asbestos Detected

Initial report from 12/28/2010 15:20:47

Analyst(s)

Melissa Klinedinst (5)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. This report contains data that is (are) not covered by the NVLAP accreditation. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ 08077

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Fax: (860) 747-8822 Phone: (860) 747-6181  
Project: **07MD806**

Customer ID: LOUR62  
Customer PO:  
Received: 12/22/10 11:15 AM  
EMSL Order: 041029477  
EMSL Proj:  
Analysis Date: 12/28/2010

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-074 041029477-0002	EAST WALL OF BUILDING 50 - JOINT COMPOUND	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
AB-075 041029477-0003	NORTH WALL OF BUILDING 50 - JOINT COMPOUND	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
AB-076 041029477-0004	WEST WALL OF BUILDING 50 - JOINT COMPOUND	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
AB-077 041029477-0005	SOUTH WALL OF BUILDING 50 - JOINT COMPOUND	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
AB-078 041029477-0006	WEST WALL OF BUILDING 50 - SHEET ROCK	Gray/Tan Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
AB-079 041029477-0007	NORTH WALL OF BUILDING 50 - SHEET ROCK	Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected

Initial report from 12/28/2010 15:20:47

Analyst(s)

Melissa Klinedinst (7)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

**EMSL Analytical, Inc.**

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Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Fax: (860) 747-8822 Phone: (860) 747-6181  
Project: **07MD806**

Customer ID: LOUR62  
Customer PO:  
Received: 12/22/10 11:15 AM  
EMSL Order: 041029477  
EMSL Proj:  
Analysis Date: 12/28/2010

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-080 041029477-0008	SOUTH WALL OF BUILDING 50 - SHEET ROCK	Gray/Tan Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected

Initial report from 12/28/2010 15:20:47

Analyst(s)

Melissa Klinedinst (7)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041029477

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Company : Loureiro Engineering Associates # : LOUR62		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Drive		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: USA
Report To (Name): Kevin J. Bitjeman		Fax #: 860-747-8822	
Telephone #: 860-410-2904		Email Address: kjbijeman@loureiro.com	
Project Name/Number: 07MD806		U.S. State Samples Taken: PA	
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email Purchase Order: _____			
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours <input type="checkbox"/> 6 Hours <input type="checkbox"/> 24 Hrs <input type="checkbox"/> 48 Hrs <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> 4 Days <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days			
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input checked="" type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		<b>TEM - Air</b> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)		<b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
<input type="checkbox"/> Other: _____			
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group			
Samplers Name: Kevin J. Bitjeman		Samplers Signature: _____	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-073	Caulk on 4" aluminum flashing. Base of parapet wall near sloped roof. Southeast side of Building 50.	Bulk	12/20/10 - NOB
AB-074	Joint compound. East wall of Building 50.	Bulk	12/20/10
AB-075	Joint compound. North wall of Building 50.	Bulk	12/20/10
AB-076	Joint compound. West wall of Building 50.	Bulk	12/20/10
AB-077	Joint compound. South wall of Building 50.	Bulk	12/20/10
AB-078	Sheet rock. West wall of Building 50.	Bulk	12/20/10
AB-079	Sheet rock. North wall of Building 50.	Bulk	12/20/10
AB-080	Sheet rock. South wall of Building 50.	Bulk	12/20/10
Client Sample # (s): AB-073 - AB-084		Total # of Samples: 12	
Relinquished (Client): <i>[Signature]</i> Date: 12/21/10		Time: _____	
Received (Lab): <i>[Signature]</i> Date: 12-22-10		Time: _____	
Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.			



**EMSL ANALYTICAL, INC.**  
LABORATORY • PRODUCTS • TRAINING

**EMSL Order Number** (*Lab Use Only*): \_\_\_\_\_

041029477

EMSL ANALYTICAL, INC.  
107 HADDON AVENUE  
WESTMONT, NJ 08108  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

NOR

[illegible]

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontasblab@EMSL.com](mailto:westmontasblab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Fax: (860) 747-8822 Phone: (860) 747-6181

Project: **07MD806**

Customer ID: L0UR62  
Customer PO:  
Received: 01/05/11 9:00 AM  
EMSL Order: 041100190

EMSL Proj:  
Analysis Date: 1/11/2011

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-085 041100190-0001	FACTORY OFFICE BLDG/ SOUTH SIDE OF BLDG. 1ST FLOOR - WINDOW GLAZING	Gray /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-086 041100190-0002	FACTORY OFFICE BLDG/ SOUTH SIDE OF BLDG. AT - CAULK ON METAL WINDOW FRAME	Gray /White Fibrous Homogeneous	98.0	None	1.9% Chrysotile
AB-087 041100190-0003	FACTORY OFFICE BLDG/ NORTH SIDE OF BLDG. 1ST FLOOR - WINDOW GLAZING	Gray /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-088 041100190-0004	FACTORY OFFICE BLDG/NORTH SIDE OF BLDG. FLOOR 1 - CAULK ON METAL WINDOW FRAME	Gray /Tan Fibrous Homogeneous	98.0	None	2.0% Chrysotile
AB-089 041100190-0005	EAST END OF FACTORY OFFICE BLDG. - CAULK BETWEEN WALL AND METAL FRAME STAIRS	White /Green Fibrous Homogeneous	99.0	None	0.8% Chrysotile
AB-090 041100190-0006	BUILDING 1 MENS ROOM - 12" X 12" GREEN FLOOR TILE WITH TAN STREAKS	Gray /Tan Non-Fibrous Heterogeneous	100.0	None	No Asbestos Detected

Initial report from 01/11/2011 11:58:46

Analyst(s)

Dave Poitras (22)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NYS ELAP 10872

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

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Fax: (860) 747-8822 Phone: (860) 747-6181  
Project: **07MD806**

Customer ID: L0UR62  
Customer PO:  
Received: 01/05/11 9:00 AM  
EMSL Order: 041100190  
EMSL Proj:  
Analysis Date: 1/11/2011

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-091 041100190-0007	BUILDING 1 MENS ROOM - MASTIC 12" X 12" GREEN FLOOR TILE WITH TAN STREAKS	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-093 041100190-0009	WEST EXTERIOR WALL OF BUILDING 3 - DARK GRAY CAULK IN EXPANSION JOINTS OF BRICK FAÇADE	Gray Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-094 041100190-0010	PARAPET WALL ON ROOF ABOVE BOILER ROOM - GRAY/TAN CAULK RESIDUE ON COPING SEAMS	Brown /Gray Fibrous Homogeneous	100.0	0.3 Glass	No Asbestos Detected
AB-095 041100190-0011	EAST FACING WINDOWS ABOVE BUILDING 8 RECEIVING ARE - CAULK ON METAL FRAME WINDOWS	Gray /Green Fibrous Homogeneous	100.0	None	<0.25% Chrysotile
AB-096 041100190-0012	EAST FACING WINDOWS ABOVE BLDG. 8 RECEIVING AREA - WINDOW GLAZING	Brown /Gray Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-097 041100190-0013	SOUTH EXTERIOR WALL OF BUILDING 1A AND 2A - WHITE CAULK IN EXPANSION JOINTS FOR MASONRY FAÇADE	Gray /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

Initial report from 01/11/2011 11:58:46

Analyst(s)

Dave Poitras (22)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NYS ELAP 10872



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

Attn: **Kevin J. Bitjeman**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Fax: (860) 747-8822 Phone: (860) 747-6181

Project: **07MD806**

Customer ID: LOUR62

Customer PO:

Received: 01/05/11 9:00 AM

EMSL Order: 041100190

EMSL Proj:

Analysis Date: 1/11/2011

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-098 041100190-0014	SOUTH EXTERIOR WALL OF BUILDINGS 9 AND 10 - TAN CAULK IN EXPANSION JOINTS FOR BRICK FAÇADE	Tan Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-099 041100190-0015	NORTH WALL OF BUILDING 9 - CAULK ON EDGES OF WIDE FLANGE BEAM IN CONCRETE BLOCK WALL	Gray /White Non-Fibrous Homogeneous	100.0	None	0.4% Chrysotile
AB-100 041100190-0016	NORTH EXTERIOR WALL OF BUILDING 9 - TAN CAULK IN EXPANSION JOINT FOR CONCRETE BLOCK WALL	Brown /Gray /White Fibrous Homogeneous	99.0	None	0.6% Chrysotile
AB-101 041100190-0017	NORTH WALL OF BUILDING 10 - TAN CAULK ON EDGES OF WIDE FLANGE BEAM IN CONCRETE BLOCK WALL	Brown /White Fibrous Homogeneous	99.0	None	0.8% Chrysotile
AB-102 041100190-0018	NORTH EXTERIOR WALL OF BUILDING 10 - CAULK ON METAL FRAME OF BROWN DOUBLE-DOORS	Gray /Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

Initial report from 01/11/2011 11:58:46

Analyst(s)

Dave Poitras (22)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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Analysis Date: 1/11/2011

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM**  
**via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-103 041100190-0019	LUNCH ROOM IN NORTHWEST CORNER OF BUILDING 12 - 12" X 12" BLUE FLOOR TILE	Brown /Blue Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-104 041100190-0020	LUNCH ROOM IN NORTHWEST CORNER OF BUILDING 12 - MASTIC TO 12" X 12" BLUE FLOOR TILE	Brown /Tan Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-106 041100190-0022	SOUTH EXTERIOR WALL OF BUILDING 12 - WHITE/ GRAY CAULK IN EXPANSION JOINTS FOR CONCRETE BLOCK WALL	Gray /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-107 041100190-0023	NORTH SIDE OF BUILDING 12 - CAULK ON METAL FRAMES OF WALL VENTS	Gray /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-108 041100190-0024	NORTHEAST CORNER OF BUILDING 12 - CAULK ON FRAME OF RED EXTERIOR METAL DOOR	Brown /Pink Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

Initial report from 01/11/2011 11:58:46

Analyst(s)

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Analysis Date: 1/11/2011

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-092 041100190-0008	BUILDING 1 MENS ROOM ABOVE SUSPENDED CEILING - 12" X 12" ACOUSTICAL CEILING TILE	Brown/White Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
AB-105 041100190-0021	MENS ROOM ON NORTH SIDE OF BUILDING 12 - 2' X 4' SUSPENDED CEILING TILE	Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (other)	None Detected

Initial report from 01/11/2011 11:58:46

Analyst(s)

Dave Poitras (2)

Stephen Siegel, CIH, Laboratory Manager  
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Samples analyzed by EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

# Asbestos Chain of Custody

## EMSL Order Number (Lab Use Only):

041100190

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

Company : Loureiro Engineering Associates # : LOUR62		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Drive		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: USA
Report To (Name): Kevin J. Bitjeman		Fax #: 860-747-8822	
Telephone #: 860-410-2904		Email Address: kjbitjeman@loureiro.com	
Project Name/Number: 07MD806			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: U.S. State Samples Taken: PA	

## Turnaround Time (TAT) Options\* - Please Check

☐ 3 Hours ☐ 6 Hours ☐ 24 Hrs ☐ 48 Hrs ☐ 3 Days ☐ 4 Days ☒ 5 Days ☐ 10 Days

\*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

## PCM - Air

- ☐ NIOSH 7400  
☐ w/ OSHA 8hr. TWA

## PLM - Bulk (reporting limit)

- ☒ PLM EPA 600/R-93/116 (<1%)  
☒ PLM EPA NOB (<1%)  
Point Count  
☐ 400 (<0.25%) ☐ 1000 (<0.1%)  
Point Count w/Gravimetric  
☐ 400 (<0.25%) ☐ 1000 (<0.1%)  
☐ NYS 198.1 (friable in NY)  
☐ NYS 198.6 NOB (non-friable-NY)  
☐ NIOSH 9002 (<1%)

## TEM - Air

- ☐ AHERA 40 CFR, Part 763  
☐ NIOSH 7402  
☐ EPA Level II  
☐ ISO 10312

## TEM - Bulk

- ☐ TEM EPA NOB  
☐ NYS NOB 198.4 (non-friable-NY)  
☐ Chatfield SOP  
☐ TEM Mass Analysis-EPA 600 sec. 2.5

## TEM - Water: EPA 100.2

- Fibers >10µm ☐ Waste ☐ Drinking  
All Fiber Sizes ☐ Waste ☐ Drinking

## TEM- Dust

- ☐ Microvac - ASTM D 5755  
☐ Wipe - ASTM D6480  
☐ Carpet Sonication (EPA 600/J-92/167)

## Soil/Rock/Vermiculite

- ☐ PLM CARB 435 - A (0.25% sensitivity)  
☐ PLM CARB 435 - B (0.1% sensitivity)  
☐ TEM CARB 435 - B (0.1% sensitivity)  
☐ TEM CARB 435 - C (0.01% sensitivity)  
☐ EPA Protocol (Semi-Quantitative)  
☐ EPA Protocol (Quantitative)

## Other:

☐

☐ Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: Kevin J. Bitjeman

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-085	Factory Office Building window glazing. South side of building. First floor.	Bulk	01/03/11
AB-086	Caulk on metal window frame. Factory office building. South side of building at roof level. First floor.	Bulk	01/03/11
AB-087	Factory Office Building window glazing. North side of building. First floor.	Bulk	01/03/11
AB-088	Caulk on metal window frame. Factory office building. North side of building. Floor 1.	Bulk	01/03/11
AB-089	Caulk between wall and metal frame stairs. East end of Factory Office Building.	Bulk	01/03/11
AB-090	12" x 12" green floor tile with tan streaks. Building 1 Mens Room.	Bulk	01/03/11
AB-091	Mastic to 12" x 12" green floor tile with tan streaks. Building 1 Mens Room.	Bulk	01/03/11
AB-092	12" x 12" acoustical ceiling tile. Building 1 Mens Room above suspended ceiling.	Bulk	01/03/11

Client Sample # (s):	AB-085 - AB-108	Total # of Samples:	24
Relinquished (Client):	<i>[Signature]</i> Date: 1/4/11	Time:	17:00
Received (Lab):	<i>[Signature]</i> Date: 1-5-11	Time:	
Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.			
Sent via FedEx			



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody

## EMSL Order Number (Lab Use Only):

041100190

EMSL ANALYTICAL, INC.  
107 HADDON AVENUE  
WESTMONT, NJ 08108  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-093	Dark gray caulk in expansion joints of brick façade. West exterior wall of Building 3.	Bulk	01/03/11
AB-094	Gray/tan caulk residue on coping seams. Parapet wall on roof above Boiler Room.	Bulk	01/03/11
AB-095	Caulk on metal frame windows. East facing windows above Building 8 Receiving Area.	Bulk	01/03/11
AB-096	Window glazing. East facing windows above Building 8 Receiving Area.	Bulk	01/03/11
AB-097	White caulk in expansion joints for masonry façade. South exterior wall of Buildings 1A and 2A.	Bulk	01/03/11
AB-098	Tan caulk in expansion joints for brick façade. South exterior wall of Buildings 9 and 10.	Bulk	01/03/11
AB-099	Caulk on edges of wide flange beam in concrete block wall. North wall of Building 9.	Bulk	01/03/11
AB-100	Tan caulk in expansion joint for concrete block wall. North exterior wall of Building 9.	Bulk	01/03/11
AB-101	Tan caulk on edges of wide flange beam in concrete block wall. North wall of Building 10.	Bulk	01/03/11
AB-102	Caulk on metal frame of brown double-doors. North exterior wall of Building 10.	Bulk	01/03/11
AB-103	12" x 12" blue floor tile. Lunch room in northwest corner of Building 12.	Bulk	01/03/11
AB-104	Mastic to 12" x 12" blue floor tile. Lunch room in northwest corner of Building 12.	Bulk	01/03/11
AB-105	2' x 4' suspended ceiling tile. Mens Room on north side of Building 12.	Bulk	01/03/11
AB-106	White/gray caulk in expansion joints for concrete block wall. South exterior wall of Building 12.	Bulk	01/03/11
AB-107	Caulk on metal frames of wall vents. North side of Building 12.	Bulk	01/03/11
AB-108	Caulk on frame of red exterior metal door. Northeast corner of Building 12.	Bulk	01/03/11
*Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.			

**EMSL Analytical, Inc.**

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**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Fax: (860) 747-8822 Phone: (860) 747-6181

Project: **07MD806**

Customer ID: LOUR62  
Customer PO:  
Received: 01/05/11 9:00 AM  
EMSL Order: 041100193

EMSL Proj:  
Analysis Date: 1/11/2011

**Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by PLM  
via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-109 041100193-0001	LUNCH ROOM ON SOUTH SIDE OF BUILDING 50 - 12" X 12" BEIGE FLOOR TILE	Gray Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-110 041100193-0002	LUNCH ROOM ON SOUTH SIDE OF BUILDING 50 - MASTIC TO 12" X 12" BEIGE FLOOR TILE	Brown /Black Non-Fibrous Homogeneous	99.0	None	1.5% Chrysotile
AB-111 041100193-0003	WEST EXTERIOR WALL OF BUILDING 50 - BLACK CAULK IN EXPANSION JOINTS FOR BRICK FAÇADE	Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-112 041100193-0004	ATTACHED BUILDING AT SOUTHEAST CORNER OF BLDG. 50 - CAULK IN EXPANSION JOINTS FOR CONCRETE BLOCK WALL	White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-113 041100193-0005	SOUTH EXTERIOR WALL OF BUILDING 50 - CAULK IN EXPANSION JOINTS FOR MASONRY FAÇADE	Gray /White Non-Fibrous Homogeneous	100.0	0.5 Fibrous (other)	0.3% Anthophyllite
suggest TEM					

Initial report from 01/11/2011 09:24:28

Analyst(s)

Melissa Klinedinst (12)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-114 041100193-0006	SOUTHWEST SIDE OF BUILDING 50 - MULTI-LAYERED CAULK IN 1" WIDE EXPANSION JOINT FOR MASONRY FAÇADE	Gray /White /Black Non-Fibrous Homogeneous	93.0	1.1 Fibrous (other)	5.7% Chrysotile
suggest TEM					
AB-115 041100193-0007	EAST EXTERIOR WALL OF TUNNEL ENCLOSURE - TAN CAULK ON EDGES OF FWIDE FLANGE BEAM IN EXTERIOR CONCRETE BLOCK WALL	Brown /Gray /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-116 041100193-0008	BUILDING 51 SOUTH EXTERIOR WALL - TAN CAULK IN EXPANSION JOINTS FOR EXTERIOR BRICK FAÇADE	Tan Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-117 041100193-0009	DOUBLE DOOR TO DOCK 5 - WHITE CAULK ON METAL FRAME	Gray /White /Green Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-118 041100193-0010	SOUTH EXTERIOR WALL OF BUILDING 51A - WHITE CAULK IN EXPANSION JOINTS FOR CONCRETE BLOCK WALL	Gray /White Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected

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via EPA 600/R-93/116 section 2.3**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
AB-120 041100193-0012	WEST EXTERIOR WALL OF TUNNEL ENCLOSURE - CAULK ON EDGES OF WIDE FLANGE BEAM	Gray /Purple Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected
AB-121 041100193-0013	SOUTH INTERIOR WALL OF TUNEL ENCLOSURE NEAR BLDG51 - TAN CAULK ON EDGES OF WIDE FLANGE BEAM	Tan /White Non-Fibrous Homogeneous	99.0	None	1.5% Chrysotile

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### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
AB-119 041100193-0011	NORTH WALL OF BUILDING 51 - WHITE MASONRY MATERIAL IN 6" WIDE WALL PENTRATION FOR FORMER WIDE FLANGE BEAM	Cream Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected

Initial report from 01/11/2011 09:24:28

Analyst(s)

Melissa Klinedinst (1)

Stephen Siegel, CIH, Laboratory Manager  
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EMSL

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

## Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041100193

EMSL ANALYTICAL, INC.

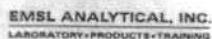
200 ROUTE 130 NORTH

CINNAMINSON, NJ 08077

PHONE: (856) 858-4800

FAX: (856) 858-4960

Company : Loureiro Engineering Associates # : LOUR62		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
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City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: USA
Report To (Name): Kevin J. Bitjeman		Fax #: 860-747-8822	
Telephone #: 860-410-2904		Email Address: kjbijeman@loureiro.com	
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Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: U.S. State Samples Taken: PA	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours <input type="checkbox"/> 6 Hours <input type="checkbox"/> 24 Hrs <input type="checkbox"/> 48 Hrs <input type="checkbox"/> 3 Days <input type="checkbox"/> 4 Days <input checked="" type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days			
*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		<b>TEM - Air</b> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
<b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input checked="" type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water:</b> EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)		<b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		<b>Other:</b> <input type="checkbox"/>	
Samplers Name: Kevin J. Bitjeman		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
AB-109	12" x 12" beige floor tile. Lunch room on south side of Building 50.	Bulk	01/03/11
AB-110	Mastic to 12" x 12" beige floor tile. Lunch room on south side of Building 50.	Bulk	01/03/11
AB-111	Black caulk in expansion joints for brick façade. West exterior wall of Building 50.	Bulk	01/03/11
AB-112	Caulk in expansion joints for concrete block wall. Attached building at southeast corner of Building 50.	Bulk	01/03/11
AB-113	Caulk in expansion joint for masonry façade. South exterior wall of Building 50.	Bulk	01/03/11
AB-114	Multi-layered caulk in 1" wide expansion joint for masonry façade. Southwest side of Building 50.	Bulk	01/03/11
AB-115	Tan caulk on edges of wide flange beam in exterior concrete block wall. East exterior wall of tunnel enclosure.	Bulk	01/03/11
AB-116	Tan caulk in expansion joints for exterior brick façade. Building 51 south exterior wall.	Bulk	01/03/11
Client Sample # (s): AB-109 - AB-121		Total # of Samples: 13	
Relinquished (Client): <i>[Signature]</i>		Date: 1/4/11 Time: 17:00	
Received (Lab): <i>[Signature]</i>		Date: 1-5-11 Time:	
Comments/Special Instructions: Analyze NOB samples by EPA/600/R-93/116 with Gravimetric Prep.			
Sent via FedEx			



**EMSL Order Number** (*Lab Use Only*):

041100193

FAX: (856) 858-4960

*Additional Pages of the Chain of Custody are only necessary if needed for additional sample information*

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